Figure 1A

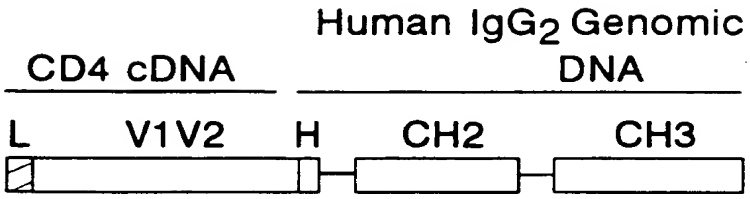


Figure 1B

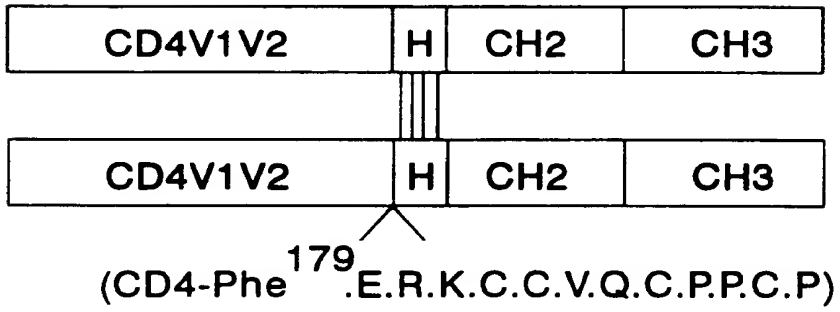


Figure 2A

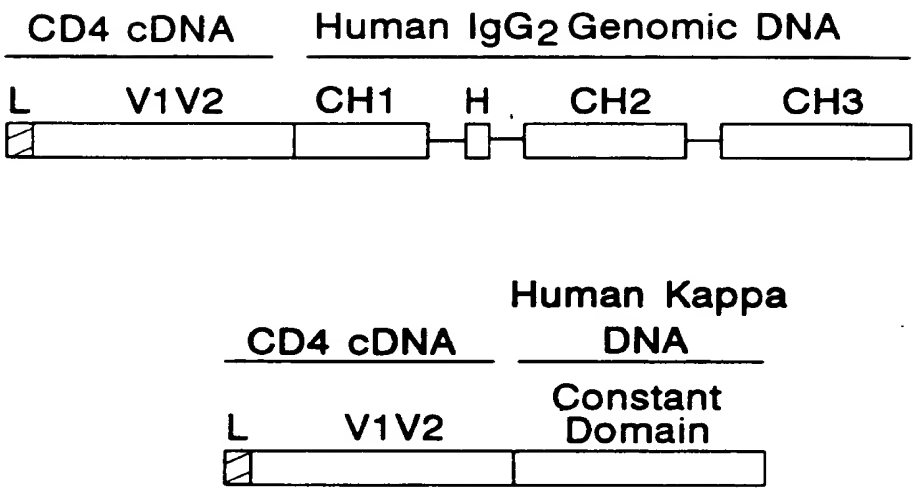


Figure 2B

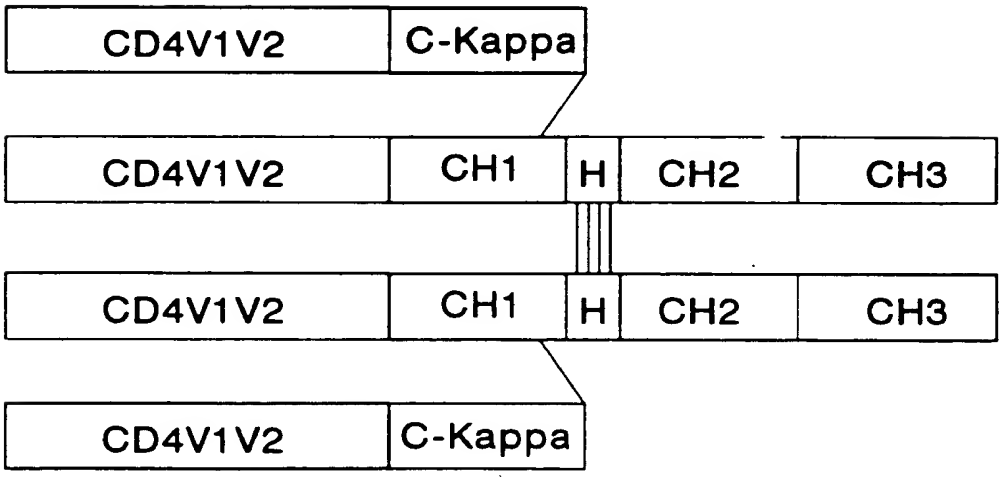
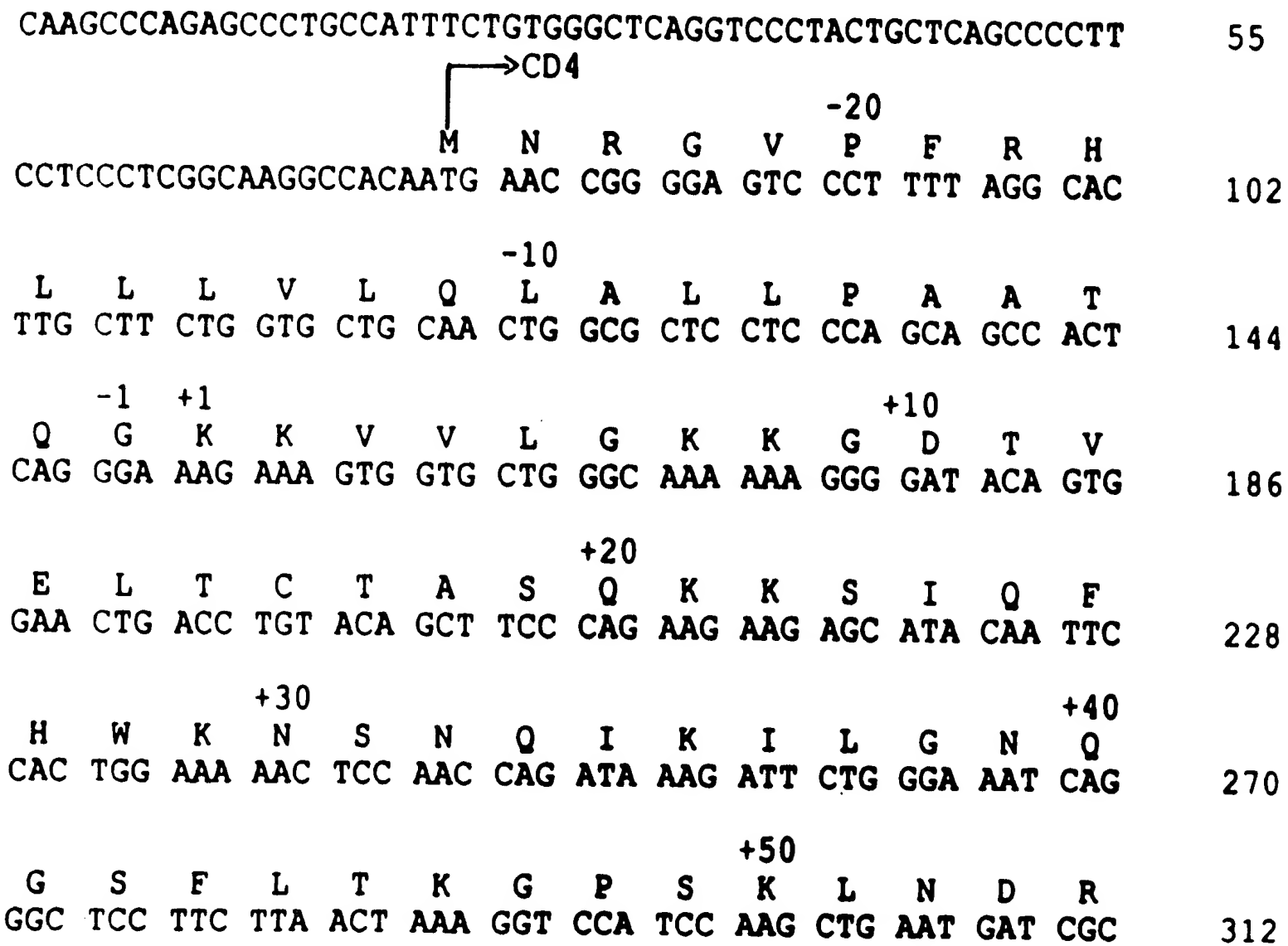
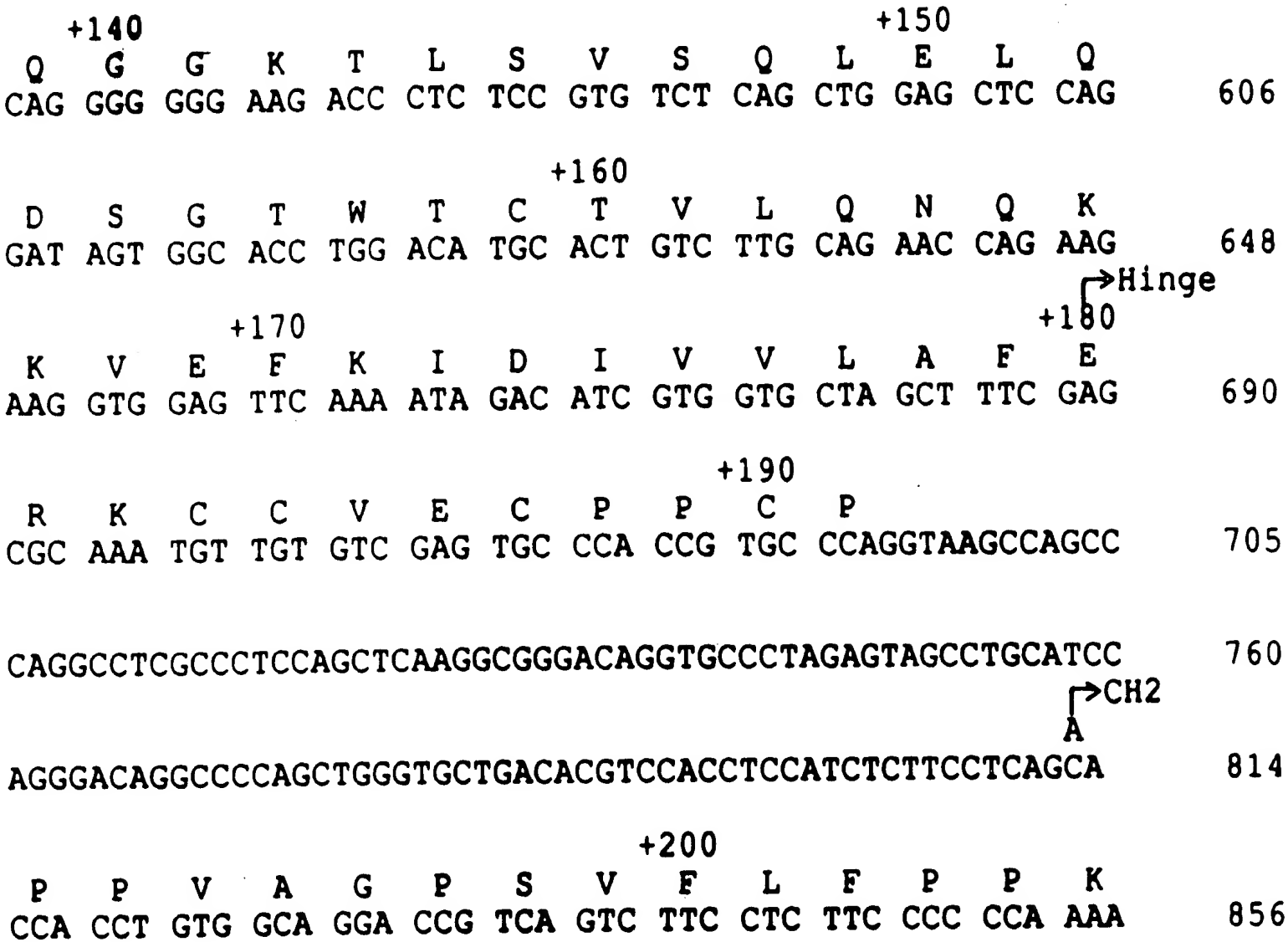


FIGURE 3



WO 92/13947
3/27
PCT/US92/01143

```
 G   S   F   L   T   K   G   P   S   K   L   N   D   R
GGC TCC TTC TTA ACT AAA GGT CCA TCC AAG CTG AAT GAT CGC      312

                        +60
 A   D   S   R   R   S   L   W   D   Q   G   N   F   P
GCT GAC TCA AGA AGA AGC CTT TGG GAC CAA GGA AAC TTC CCC      354

                                                +80
    +70
 L   I   I   K   N   L   K   I   E   D   S   D   T   Y
CTG ATC ATC AAG AAT CTT AAG ATA GAA GAC TCA GAT ACT TAC      396

                                +90
 I   C   E   V   E   D   Q   K   E   E   V   Q   L   L
ATC TGT GAA GTG GAG GAC CAG AAG GAG GAG GTG CAA TTG CTA      438

            +100                                    +110
 V   F   G   L   T   A   N   S   D   T   H   L   L   Q
GTG TTC GGA TTG ACT GCC AAC TCT GAC ACC CAC CTG CTT CAG      480

                                    +120
 G   Q   S   L   T   L   T   L   E   S   P   P   G   S
GGG CAG AGC CTG ACC CTG ACC TTG GAG AGC CCC CCT GGT AGT      522

                        +130
 S   P   S   V   Q   C   R   S   P   R   G   K   N   I
AGC CCC TCA GTG CAA TGT AGG AGT CCA AGG GGT AAA AAC ATA      564
```

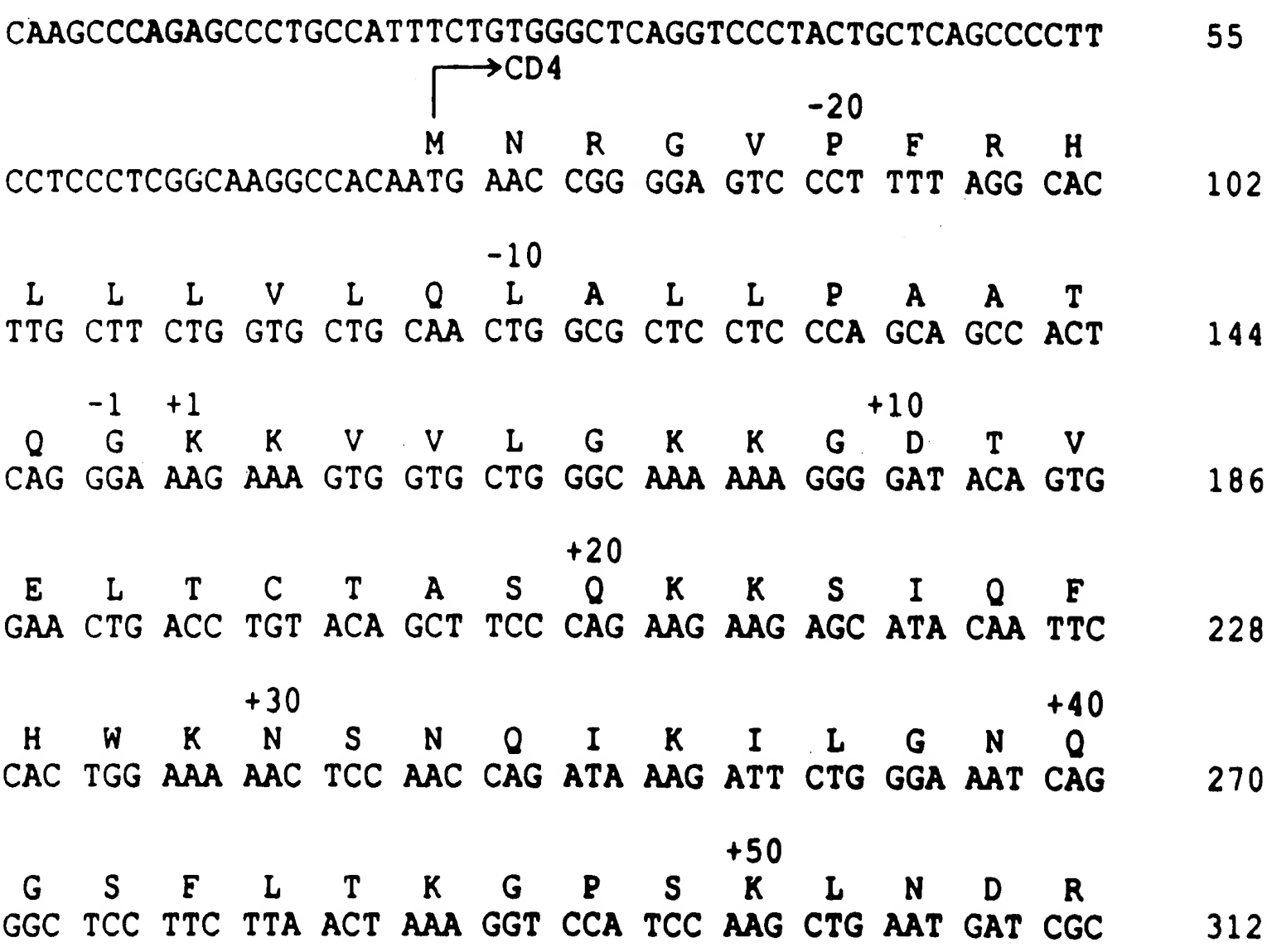

+140
+150
Q G G K T L S V S Q L E L Q
CAG GGG GGG AAG ACC CTC TCC GTG TCT CAG CTG GAG CTC CAG 606
+160
D S G T W T C T V L Q N Q K
GAT AGT GGC ACC TGG ACA TGC ACT GTC TTG CAG AAC CAG AAG 648
Hinge
+170
+180
K V E F K I D I V V L A F E
AAG GTG GAG TTC AAA ATA GAC ATC GTG GTG CTA GCT TTC GAG 690
+190
R K C C V E C P P C P
CGC AAA TGT TGT GTC GAG TGC CCA CCG TGC CCAGGTAAGCCAGCC 705
CAGGCCTCGCCCTCCAGCTCAAGGCGGGACAGGTGCCCTAGAGTAGCCTGCATCC 760
CH2
A
AGGGACAGGCCCCAGCTGGGTGCTGACACGTCCACCTCCATCTCTTCCTCAGCA 814
+200
P P V A G P S V F L F P P K
CCA CCT GTG GCA GGA CCG TCA GTC TTC CTC TTC CCC CCA AAA 856

```
                  +210
 P   K   D   T   L   M   I   S   R   T   P   E   V   T
CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACG      898

+220                                            +230
 C   V   V   V   D   V   S   H   E   D   P   E   V   Q
TGC GTG GTG GTG GAC GTG AGC CAC GAA GAC CCC GAG GTC CAG      940

                      +240
 F   N   W   Y   V   D   G   V   E   V   H   N   A   K
TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG      982

        +250                                        +260
 T   K   P   R   E   E   Q   F   N   S   T   F   R   V
ACA AAG CCA CGG GAG GAG CAG TTC AAC AGC ACG TTC CGT GTG     1024

                                  +270
 V   S   V   L   T   V   V   H   Q   D   W   L   N   G
GTC AGC GTC CTC ACC GTT GTG CAC CAG GAC TGG CTG AAC GGC     1066

                  +280
 K   E   Y   K   C   K   V   S   N   K   G   L   P   A
AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GGC CTC CCA GCC     1108

+290
 P   I   E   K   T   I   S   K   T   K
CCC ATC GAG AAA ACC ATC TCC AAA ACC AAAGGTGGGACCCGCGGGG     1154
```

```
TATGAGGGCCACATGGACAGAGGCCGGCTCGGCCCACCCTCTGCCCTGGGAGTGA      1209
                                       ┌→CH3
                                    +300
                                       G   Q   P   R   E   P   Q
CCGCTGTGCCAACCTCTGTCCCTACAGGG CAG CCC CGA GAA CCA CAG       1256

             +310                                        +320
 V   Y   T   L   P   P   S   R   E   E   M   T   K   N
GTG TAC ACC CTG CCC CCA TCC CGG GAG GAG ATG ACC AAG AAC      1298

                                     +330
 Q   V   S   L   T   C   L   V   K   G   F   Y   P   S
CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC TAC CCC AGC      1340

                     +340
 D   I   A   V   E   W   E   S   N   G   Q   P   E   N
GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG AAC      1382

    +350                                     +360
 N   Y   K   T   T   P   P   M   L   D   S   D   G   S
AAC TAC AAG ACC ACA CCT CCC ATG CTG GAC TCC GAC GGC TCC      1424

                             +370
 F   F   L   Y   S   K   L   T   V   D   K   S   R   W
TTC TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG      1466
```

```
                +380                                                +400
 Q   Q   G   N   V   F   S   C   S   V   M   H   E   A
CAG CAG GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT      1508

                                    +410
 L   H   N   H   Y   T   Q   K   S   L   S   L   S   P
CTG CAC AAC CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG      1550

 G   K  stop
GGT AAA TGAGTGCCACGGCCGGCAAGCCCCCGCTCCCCAGGCTCTCGGGGTCG      1603

CGTGAGGATGCTTGGCACGTACCCCGTGTACATACTTCCCAGGCACCCAGCATGG      1658

AAATAAAGCACCCAGCGCTGCCCTGGGCCCCTGCGAGACTGTGATGGTTCTTTCC      1713

GTGGGTCAGGCCGAGTCTGAGGCCTGAGTGGCATGAGGGAGGCAGAGTGGGTC...    1766
```

FIGURE 4

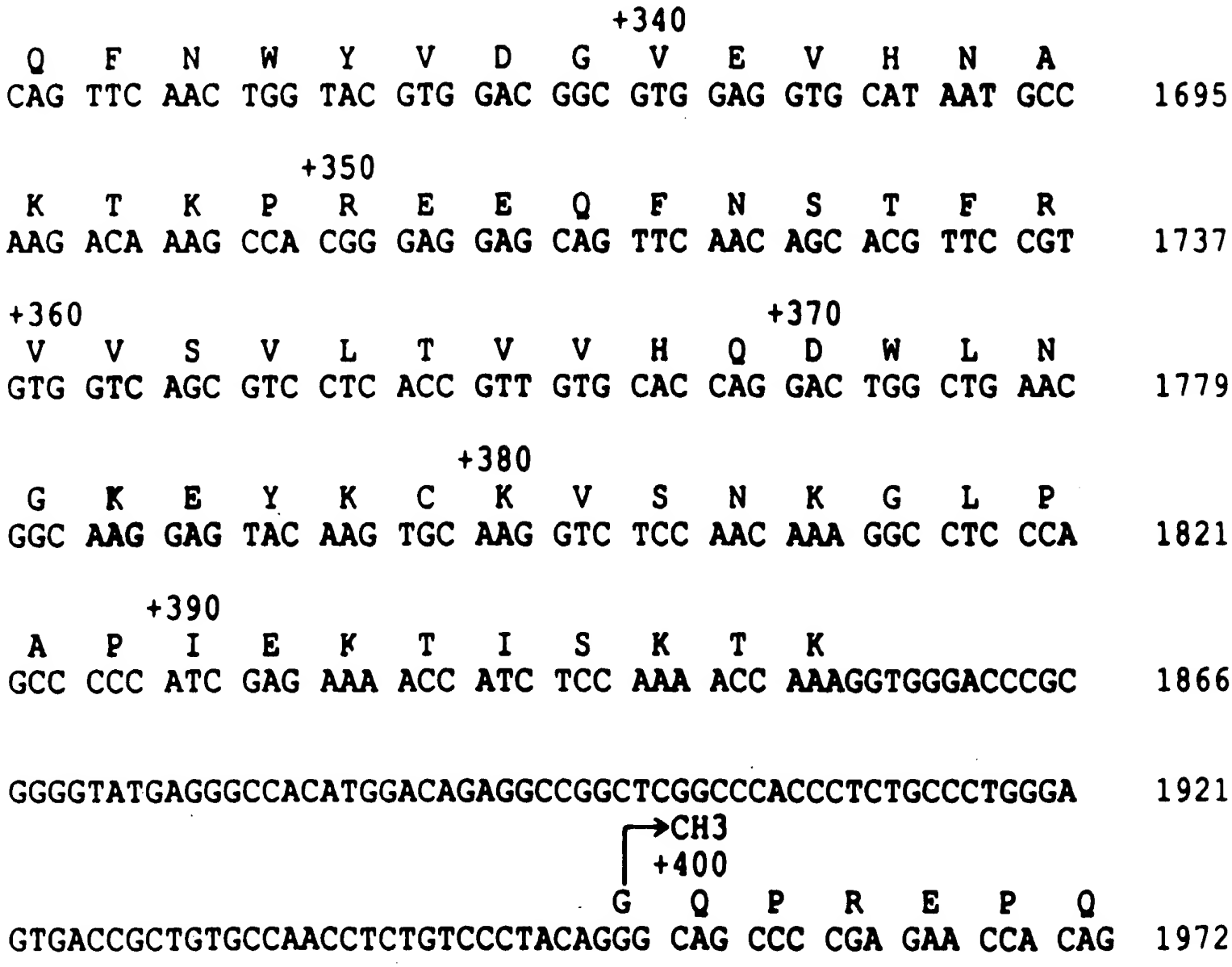


```
                          +60
 A   D   S   R   R   S   L   W   D   Q   G   N   F   P
GCT GAC TCA AGA AGA AGC CTT TGG GAC CAA GGA AAC TTC CCC      354

    +70                                           +80
 L   I   I   K   N   L   K   I   E   D   S   D   T   Y
CTG ATC ATC AAG AAT CTT AAG ATA GAA GAC TCA GAT ACT TAC      396

                              +90
 I   C   E   V   E   D   Q   K   E   E   V   Q   L   L
ATC TGT GAA GTG GAG GAC CAG AAG GAG GAG GTG CAA TTG CTA      438

            +100                                      +110
 V   F   G   L   T   A   N   S   D   T   H   L   L   Q
GTG TTC GGA TTG ACT GCC AAC TCT GAC ACC CAC CTG CTT CAG      480

                                      +120
 G   Q   S   L   T   L   T   L   E   S   P   P   G   S
GGG CAG AGC CTG ACC CTG ACC TTG GAG AGC CCC CCT GGT AGT      522

                      +130
 S   P   S   V   Q   C   R   S   P   R   G   K   N   I
AGC CCC TCA GTG CAA TGT AGG AGT CCA AGG GGT AAA AAC ATA      564
```

```
     +140                                         +150
 Q    G    G    K    T    L    S    V    S    Q    L    E    L    Q
CAG  GGG  GGG  AAG  ACC  CTC  TCC  GTG  TCT  CAG  CTG  GAG  CTC  CAG    606

                                     +160
 D    S    G    T    W    T    C    T    V    L    Q    N    Q    K
GAT  AGT  GGC  ACC  TGG  ACA  TGC  ACT  GTC  TTG  CAG  AAC  CAG  AAG    648
                                                                ┌→CH1
               +170                                           +180
 K    V    E    F    K    I    D    I    V    V    L    A    F    A
AAG  GTG  GAG  TTC  AAA  ATA  GAC  ATC  GTG  GTG  CTA  GCT  TTC  GCC    690

                                          +190
 S    T    K    G    P    S    V    F    P    L    A    P    C    S
TCC  ACC  AAG  GGC  CCA  TCG  GTC  TTC  CCC  CTG  GCG  CCC  TGC  TCC    732

                         +200
 R    S    T    S    E    S    T    A    A    L    G    C    L    V
AGG  AGC  ACC  TCC  GAG  AGC  ACA  GCC  GCC  CTG  GGC  TGC  CTG  GTC    774

     +210                                         +220
 K    D    Y    F    P    E    P    V    T    V    S    W    N    S
AAG  GAC  TAC  TTC  CCC  GAA  CCG  GTG  ACG  GTG  TCG  TGG  AAC  TCA    816

                                +230
 G    A    L    T    S    G    V    H    T    F    P    A    V    L
GGC  GCT  CTG  ACC  AGC  GGC  GTG  CAC  ACC  TTC  CCA  GCT  GTC  CTA    858
```

```
          +240                                    +250
 Q   S   S   G   L   Y   S   L   S   S   V   V   T   V
CAG TCC TCA GGA CTC TAC TCC CTC AGC AGC GTG GTG ACC GTG      900

                                      +260
 P   S   S   N   F   G   T   Q   T   Y   T   C   N   V
CCC TCC AGC AAC TTC GGC ACC CAG ACC TAC ACC TGC AAC GTA      942

                  +270
 D   H   K   P   S   N   T   K   V   D   K   T   V
GAT CAC AAG CCC AGC AAC ACC AAG GTG GAC AAG ACA GTTGGTG      985

AGAGGCCAGCTCAGGGAGGGAGGGTGTCTGCTGGAAGCCAGGCTCAGCCCTCCTG     1040

CCTGGACGCACCCCGGCTGTGCAGCCCCAGCCCAGGGCAGCAAGGCAGGCCCCAT     1095

CTGTCTCCTCACCCGGAGGCCTCTGCCCGCCCCACTCATGCTCAGGGAGAGGGTC     1150

TTCTGGCTTTTTCCACCAGGCTCCAGGCAGGCACAGGCTGGGTGCCCCTACCCCA     1205

GGCCCTTCACACACAGGGGCAGGTGCTTGGCTCAGACCTGCCAAAAGCCATATCC     1260
```

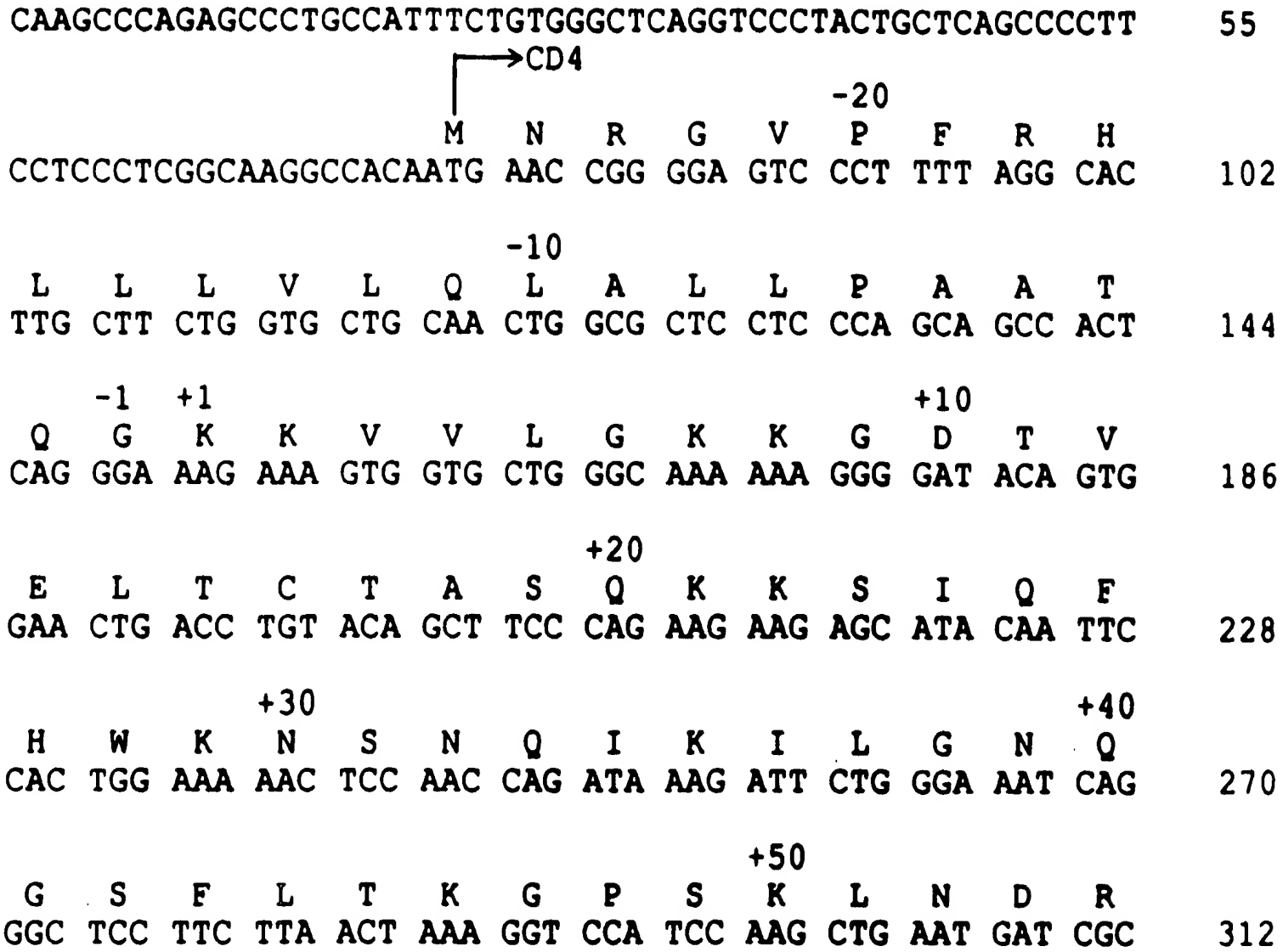
```
GGGAGGACCCTGCCCCTGACCTAAGCCGACCCCAAAGGCCAAACTGTCCACTCCC     1315

TCAGCTCGGACACCTTCTCTCCTCCCAGATCCGAGTAACTCCCAATCTTCTCTCT     1370
     ┌──→Hinge
     │      +280
     E   R   K   C   C   V   E   C   P   P   C   P
GCAGAG CGC AAA TGT TGT GTC GAG TGC CCA CCG TGC CCAGGTAAG    1415

CCAGCCCAGGCCTCGCCCTCCAGCTCAAGGCGGGACAGGTGCCCTAGAGTAGCCT     1470

GCATCCAGGGACAGGCCCCAGCTGGGTGCTGACACGTCCACCTCCATCTCTTCCT     1525
   ┌→CH2
 +290                                        +300
   A   P   P   V   A   G   P   S   V   F   L   F   P   P
CAGCA CCA CCT GTG GCA GGA CCG TCA GTC TTC CTC TTC CCC CCA   1569

                        +310
 K   P   K   D   T   L   M   I   S   R   T   P   E   V
AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC     1611

       +320                                        +330
 T   C   V   V   V   D   V   S   H   E   D   P   E   V
ACG TGC GTG GTG GTG GAC GTG AGC CAC GAA GAC CCC GAG GTC     1653
```


+340
Q F N W Y V D G V E V H N A
CAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC 1695
+350
K T K P R E E Q F N S T F R
AAG ACA AAG CCA CGG GAG GAG CAG TTC AAC AGC ACG TTC CGT 1737
+360
+370
V V S V L T V V H Q D W L N
GTG GTC AGC GTC CTC ACC GTT GTG CAC CAG GAC TGG CTG AAC 1779
+380
G K E Y K C K V S N K G L P
GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GGC CTC CCA 1821
+390
A P I E K T I S K T K
GCC CCC ATC GAG AAA ACC ATC TCC AAA ACC AAAGGTGGGACCCGC 1866
GGGGTATGAGGGCCACATGGACAGAGGCCGGCTCGGCCCACCCTCTGCCCTGGGA 1921
CH3
+400
G Q P R E P Q
GTGACCGCTGTGCCAACCTCTGTCCCTACAGGG CAG CCC CGA GAA CCA CAG 1972

```
                  +410
 V   Y   T   L   P   P   S   R   E   E   M   T   K   N
GTG TAC ACC CTG CCC CCA TCC CGG GAG GAG ATG ACC AAG AAC    2014

+420                                          +430
 Q   V   S   L   T   C   L   V   K   G   F   Y   P   S
CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC TAC CCC AGC    2056

                      +440
 D   I   A   V   E   W   E   S   N   G   Q   P   E   N
GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG AAC    2098

        +450                                      +460
 N   Y   K   T   T   P   P   M   L   D   S   D   G   S
AAC TAC AAG ACC ACA CCT CCC ATG CTG GAC TCC GAC GGC TCC    2140

                              +470
 F   F   L   Y   S   K   L   T   V   D   K   S   R   W
TTC TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG    2182

                  +480
 Q   Q   G   N   V   F   S   C   S   V   M   H   E   A
CAG CAG GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT    2224

+490                                          +500
 L   H   N   H   Y   T   Q   K   S   L   S   L   S   P
CTG CAC AAC CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG    2266
```

```
                                                    G   K  stop
GGT AAA TGAGTGCCACGGCCGGCAAGCCCCCGCTCCCCAGGCTCTCGGGGTCG      2319

CGTGAGGATGCTTGGCACGTACCCCGTGTACATACTTCCCAGGCACCCAGCATGG      2374

AAATAAAGCACCCAGCGCTGCCCTGGGGCCCCTGCGAGACTGTGATGGTTCTTTCC     2429

GTGGGTCAGGCCGAGTCTGAGGCCTGAGTGGCATGAGGGAGGCAGAGTGGGTC...    2482
```

FIGURE 5


CAAGCCCAGAGCCCTGCCATTTCTGTGGGCTCAGGTCCCTACTGCTCAGCCCCTT 55
CD4
-20
M N R G V P F R H
CCTCCCTCGGCAAGGCCACAATG AAC CGG GGA GTC CCT TTT AGG CAC 102
-10
L L L V L Q L A L L P A A T
TTG CTT CTG GTG CTG CAA CTG GCG CTC CTC CCA GCA GCC ACT 144
-1 +1 +10
Q G K K V V L G K K G D T V
CAG GGA AAG AAA GTG GTG CTG GGC AAA AAA GGG GAT ACA GTG 186
+20
E L T C T A S Q K K S I Q F
GAA CTG ACC TGT ACA GCT TCC CAG AAG AAG AGC ATA CAA TTC 228
+30 +40
H W K N S N Q I K I L G N Q
CAC TGG AAA AAC TCC AAC CAG ATA AAG ATT CTG GGA AAT CAG 270
+50
G S F L T K G P S K L N D R
GGC TCC TTC TTA ACT AAA GGT CCA TCC AAG CTG AAT GAT CGC 312

```
                          +60
 A   D   S   R   R   S   L   W   D   Q   G   N   F   P
GCT GAC TCA AGA AGA AGC CTT TGG GAC CAA GGA AAC TTC CCC    354

    +70                                           +80
 L   I   I   K   N   L   K   I   E   D   S   D   T   Y
CTG ATC ATC AAG AAT CTT AAG ATA GAA GAC TCA GAT ACT TAC    396

                              +90
 I   C   E   V   E   D   Q   K   E   E   V   Q   L   L
ATC TGT GAA GTG GAG GAC CAG AAG GAG GAG GTG CAA TTG CTA    438

            +100                                  +110
 V   F   G   L   T   A   N   S   D   T   H   L   L   Q
GTG TTC GGA TTG ACT GCC AAC TCT GAC ACC CAC CTG CTT CAG    480

                                  +120
 G   Q   S   L   T   L   T   L   E   S   P   P   G   S
GGG CAG AGC CTG ACC CTG ACC TTG GAG AGC CCC CCT GGT AGT    522

                      +130
 S   P   S   V   Q   C   R   S   P   R   G   K   N   I
AGC CCC TCA GTG CAA TGT AGG AGT CCA AGG GGT AAA AAC ATA    564
```

```
   +140                                             +150
 Q   G   G   K   T   L   S   V   S   Q   L   E   L   Q
CAG GGG GGG AAG ACC CTC TCC GTG TCT CAG CTG GAG CTC CAG     606

                             +160
 D   S   G   T   W   T   C   T   V   L   Q   N   Q   K
GAT AGT GGC ACC TGG ACA TGC ACT GTC TTG CAG AAC CAG AAG     648
                                                     ┌→Ckappa
               +170                                 +180
 K   V   E   F   K   I   D   I   V   V   L   A   F   T
AAG GTG GAG TTC AAA ATA GAC ATC GTG GTG CTA GCT TTC ACT     690

                                     +190
 V   A   A   P   S   V   F   I   F   P   P   S   D   E
GTG GCT GCA CCA TCT GTC TTC ATC TTC CCG CCA TCT GAT GAG     732

                       +200
 Q   L   K   S   G   T   A   S   V   V   C   L   L   N
CAG TTG AAA TCT GGA ACT GCC TCT GTT GTG TGC CTG CTG AAT     774

   +210                                             +220
 N   F   Y   P   R   E   A   K   V   Q   W   K   V   D
AAC TTC TAT CCC AGA GAG GCC AAA GTA CAG TGG AAG GTG GAT     716

                             +230
 N   A   L   Q   S   G   N   S   Q   E   S   V   T   E
AAC GCC CTC CAA TCG GGT AAC TCC CAG GAG AGT GTC ACA GAG     758
```

```
             +240                                                        +250
 Q    D    S    K    D    S    T    Y    S    L    S    S    T    L
CAG  GAC  AGC  AAG  GAC  AGC  ACC  TAC  AGC  CTC  AGC  AGC  ACC  CTG      900

                                                   +260
 T    L    S    K    A    D    Y    E    K    H    K    V    Y    A
ACG  CTG  AGC  AAA  GCA  GAC  TAC  GAG  AAA  CAC  AAA  GTC  TAC  GCC      942

                              +270
 C    E    V    T    H    Q    G    L    S    S    P    V    T    K
TGC  GAA  GTC  ACC  CAT  CAG  GGC  CTG  AGC  TCG  CCC  GTC  ACA  AAG      984

   +280
 S    F    N    R    G    E    C   stop
AGC  TTC  AAC  AGG  GGA  GAG  TGT  TAG  AGGGAGAAGTGCCCCCACCTGCTC  1032

CTCAGTTCCAGCCTGACCCCCTCCCATCCTTTGGCCTCTGACCCTTTTTCCACAGG  1088

GGACCTACCCCTATTGCGGTCCTCCAAGCTCATCTTTCACCTCACCCCCCTCCTCC  1144

TCCTT
```

Figure 6

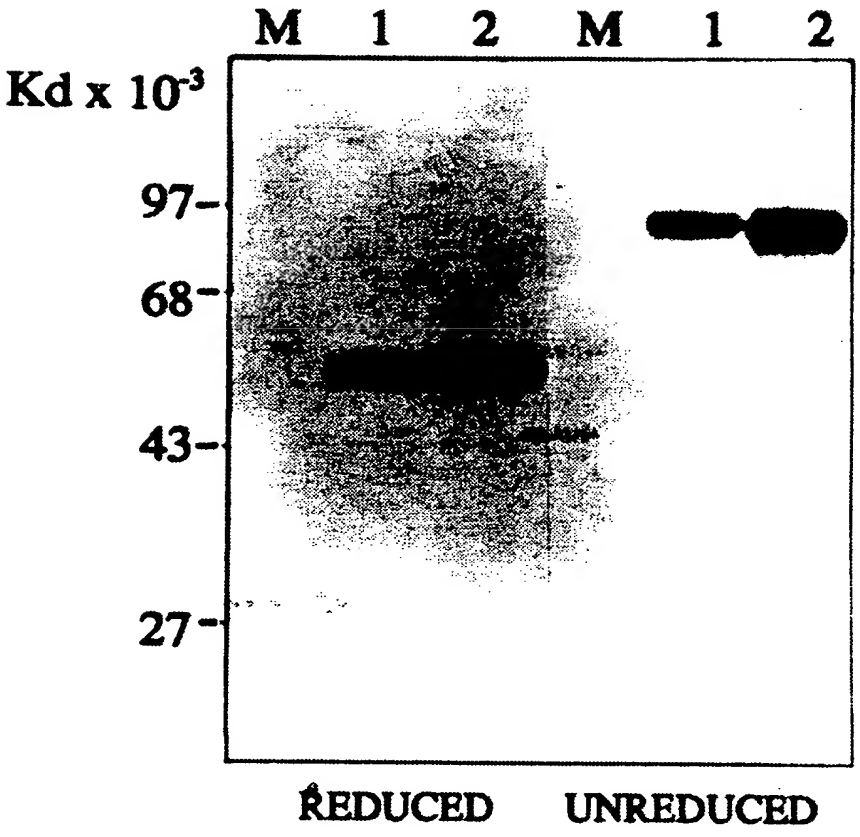


Figure 7

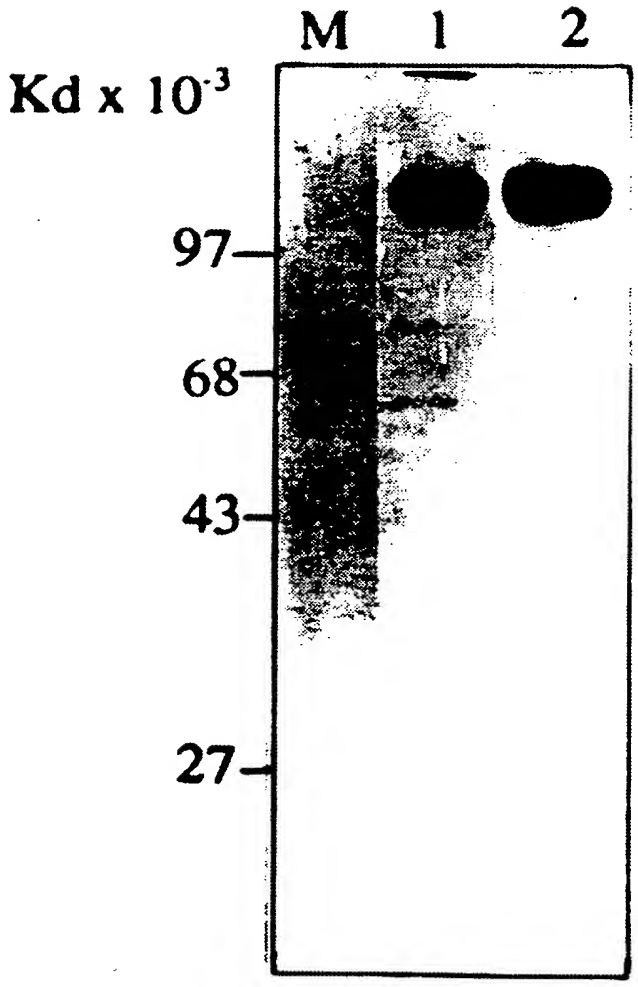


Figure 8

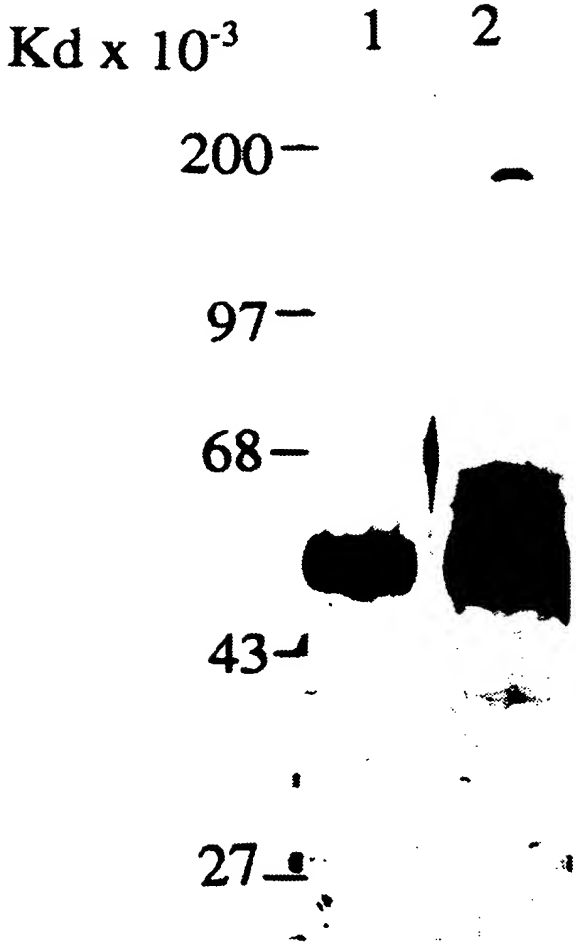


FIGURE 9

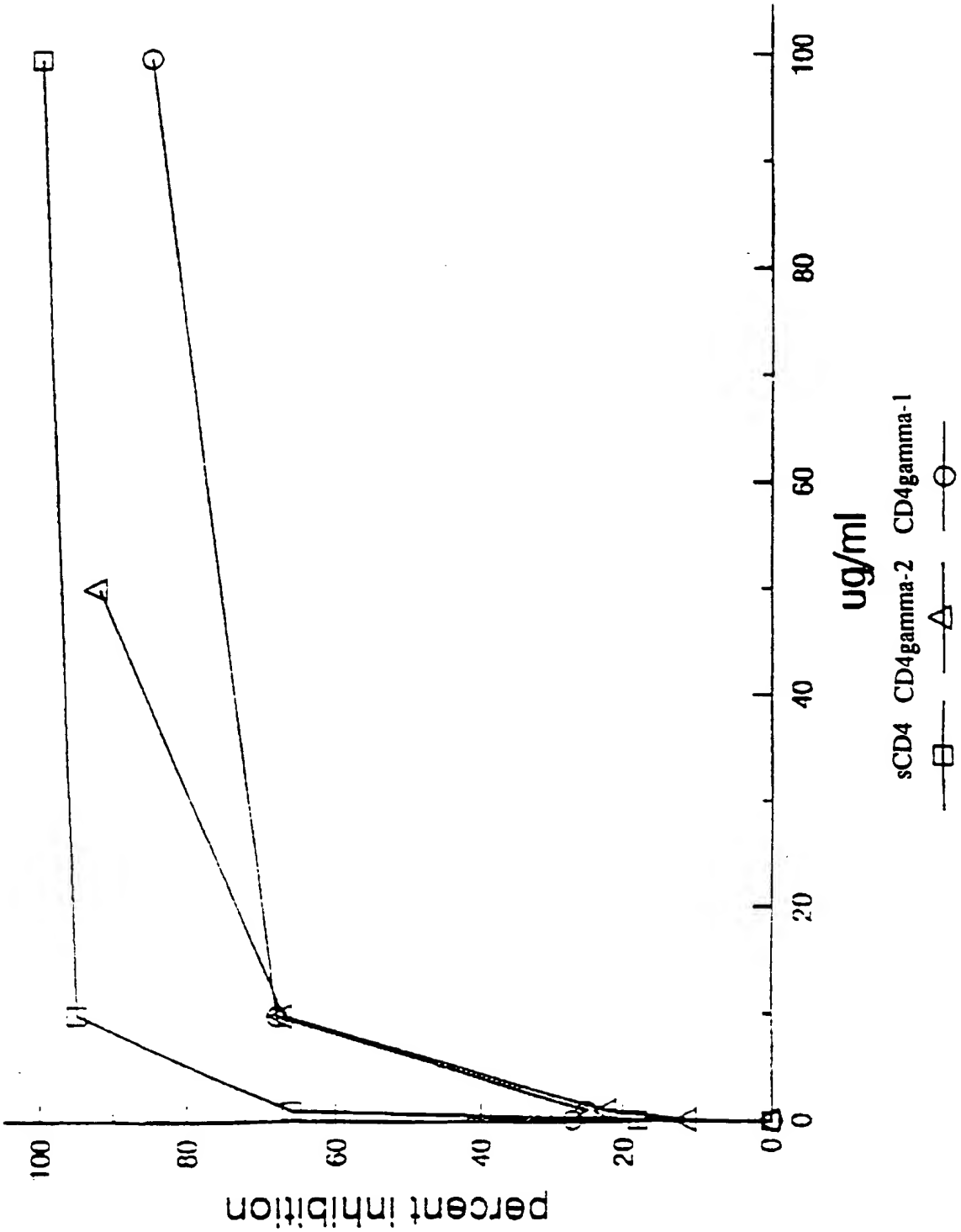

percent inhibition
0
20
40
60
80
100
0
20
40
60
80
100
ug/ml
sCD4 CD4gamma-2 CD4gamma-1

FIGURE 10

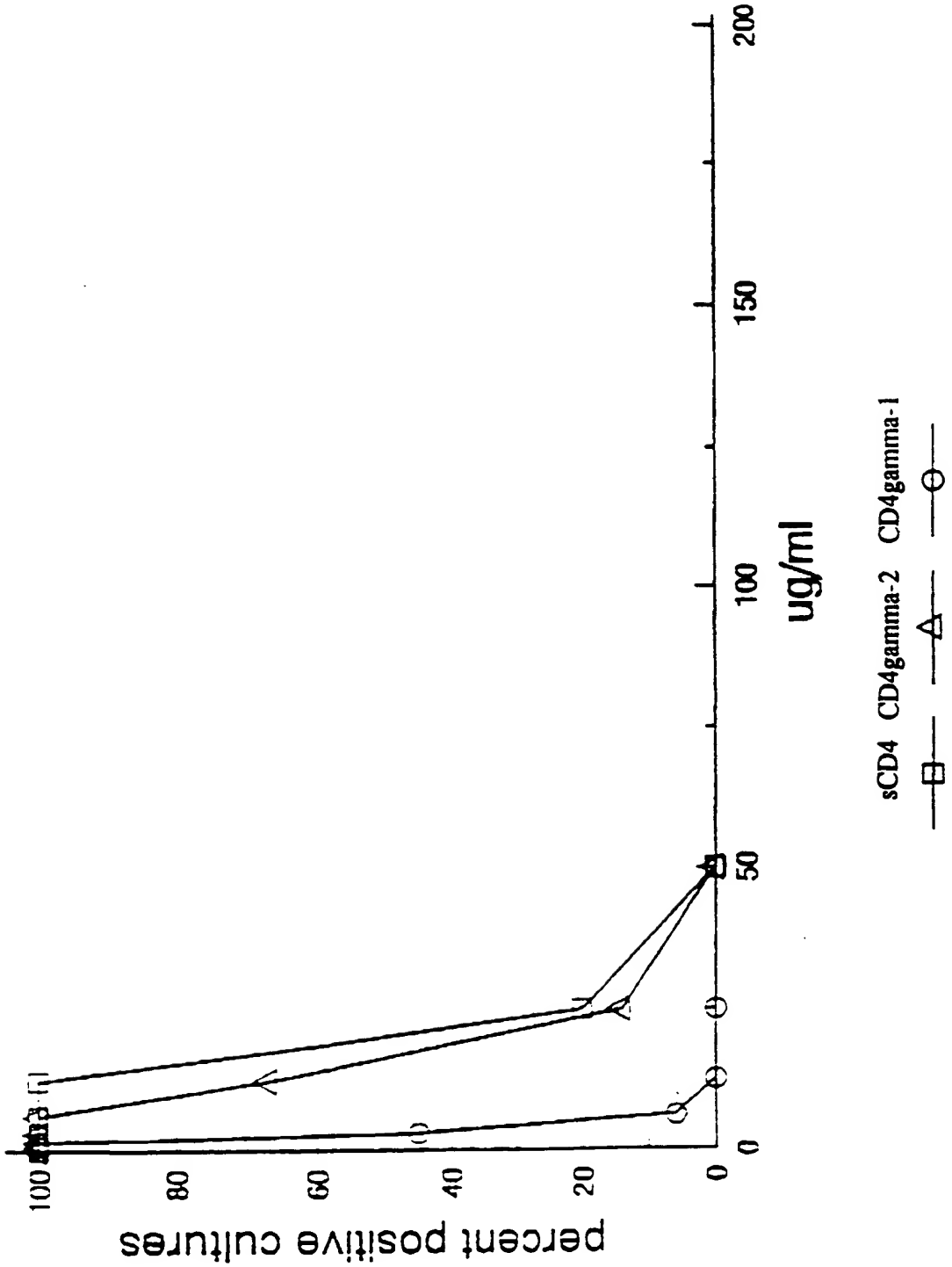

percent positive cultures
0
20
40
60
80
100
0
50
100
150
200
ug/ml
sCD4
CD4gamma-2
CD4gamma-1

Figure 11

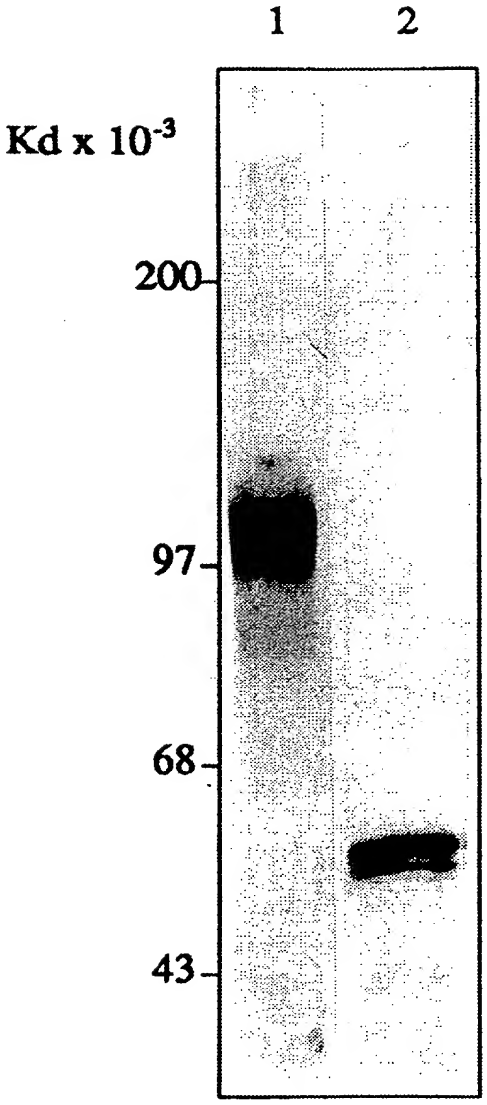


Figure 12B

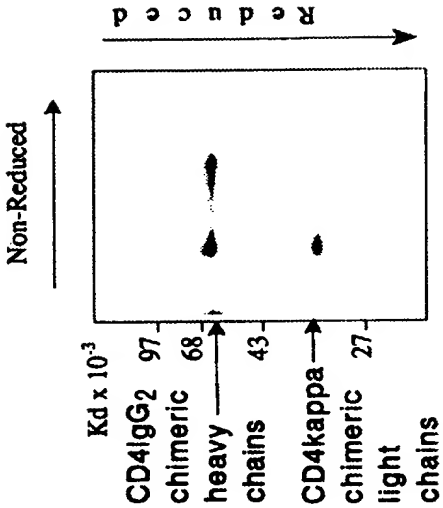
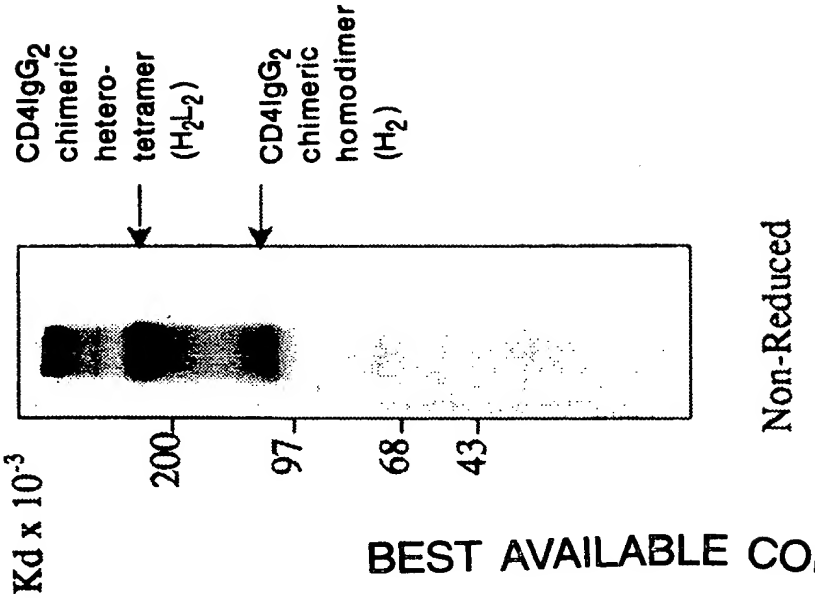


Figure 12A



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